Tier Two

Reporting Period: January 1 to December 31, 2001

Specific Information by Chemical

Emergency and Hazardous Chemical Inventory

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Facility Name: NASA Langley Research Center

FACILITY IDENTIFICATION:

NASA Langley Research Center Latitude 37° 5'N Longitude76° 22'W

Hampton, VA 23681 County:

Number of employees:

IDENTIFICATION NUMBERS: SIC: 9661

CONTACT INFORMATION:

NASA Langley Research Center, Title: N/A, Contact Type 1: Owner / Operator Address: MS 429, Hampton, VA, 23681 Phones: Facility Phone Number: 757-864-3342

Brown, Robert
Title: Environ. Mngmt. Officer, Contact Type 1: Emergency Contact
Address: Bldg. 1183, MS 418, Hampton, VA, 23681
Phones: 24-hour: 757-238-2645

Email: robert.d.brown@larc.nasa.gov

Contact Type 1: Emergency Contact Work: 757-864-3358

Work: 757-864-3358

Phillips, Alan
Title: Emergency Preparedness Officer, Contact Ty
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Phones: Work: 757-864-3358
Work: 757-864-3358

Email: a.h.phillips@larc.nasa.gov

CHEMICAL DESCRIPTIONS:

Specific Information by Chemical

Facility Name:

NASA Langley Research Center

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```
Container Type: A
Container Type: A
Container Type: A
Container Type: B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   [ ] Identical to previous year
                                                                                                                                                                                                                                                                                   Container Type: A
                                                                                                                                                                                                                                                                                                                                     Container Type: A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   [ ] Pure [x] Mix [ ] Solid [x] Liquid [ ] Gas [ ] EHS PHYSICAL & HEALTH HAZARDS:
                                                                                                                                                                                                                                                                                                                                                                                                               No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
The state of the state 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        [x] Fire \ [ ] Sudden Release of Pressure \ [ ] Reactivity \ [x] Immediate (acute) INVENTORY:
CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Max Amt: , Max Daily Amt code: 06 Avg. Amt: , Avg. Daily Amt code: 06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CHEM NAME: No. 2 Fuel Oil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAS: 68476-30-2
                                                                                                                                                                                                                                                                                                                                                                                               Container Type: A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Max quantity in largest container:,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TRADE SECRET
                                                                                                                                                                                                                                                                                                                                                     Pressure:
                                                                                                                                                                                                                                      Pressure:
                                                                                                                                                                                                                                                                                            Pressure:
                                                                      Pressure:
                                                                                                                           Pressure:
                                                                                                                                                                            Pressure:
                                                                                                                           Temp: 4
Temp: 4
                                                                                                                                                                                                                                                                                        Temp: 4
                                                                                                                                                                                                                                                                                                                                                     Temp: 4
                                                                      Temp: 4
                                                                                                                                                                                                                                              Temp: 4
                                                                      Location: Building 1228
Location: Building 1297C
Location: Building 1258
Location: Building 1215
                                                                                                                                                                                                                                                                               Location: Building 1297
                                                                                                                                                                                                                                                                                                                                                     Location: Building 1236
                                                                                                                                                                                                                                                                                                                                                                                                               Location: Building 648
                                                                                                                                                                                                                                                       Amount:
                                                                                  Amount:
                                                                                                                                            Amount:
                                                                                                                                                                                                                                                                                                                Amount:
                                                                                                                                                                                                                                                                                                                                                                          Amount:
                                                                                                                                                                                                 Amount:
                                                                                                                                                                                                                                                                                                                                                                                                                                    Amount:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              [x] Delayed (chronic)
```

```
[ ] Identical to previous year
                 Container Type: F
                                                                                                                                                                                                                       [ ] Pure [x] Mix [ ] Solid [x] Liquid PHYSICAL & HEALTH HAZARDS:
                                                          No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
                                                                                                                                                                           [x] Fire [ ] Sudden Release of Pressure INVENTORY:
CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia
                                                                                                                             Max Amt: , Max Daily Amt code: 05
Avg. Amt: , Avg. Daily Amt code: 05
                                                                                                                                                                                                                                                                        CHEM NAME: JP-5
                                                                                                                                                                                                                                                                                                                    CAS: 64742-47-8
                                   Container Type: P
                                                                                                             Max quantity in largest container:,
                                                                                                                                                                                                                                                                                              TRADE SECRET
                                             Pressure: 1
                                                                                                                                                                                                                                                    []Gas []EHS
                                                  Temp: 4
                                                                                                                                                                                                          [ ] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
                                                Location: Building 1244
                                                         Amount:
```

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Facility Name: NASA Langley Research Center

```
[ ] Identical to previous year
                  Container Type: L
                                     Container Type: L
                                                                                                                                                                                                                   [X] Pure [ ] Mix [ ] Solid [ ] Liquid PHYSICAL & HEALTH HAZARDS:
CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia
                                                                            STORAGE CÓDES & STORAGE LOCATIONS:
                                                                                                                                                                             INVENTORY:
                                                                                                                                                                                                                                                          CHEM NAME: 1,1,1,2-Tetrafluoroethane
                                                                                                                                                                                                                                                                                                     CAS: 811-97-2
                                                                                                                                   Max Amt: , Max Daily Amt code: 05 Avg. Amt: , Avg. Daily Amt code: 05
                                                                                                Max quantity in largest container: No. of days on-site: 365
                                                        Container Type: A
                                                                                                                                                                                               []Fire [x] Sudden Release of Pressure [] Reactivity [x] Immediate (acute) [] Delayed (chronic)
                                                                                                                                                                                                                                                                                  TRADE SECRET
                     Pressure: 2
Pressure: 2
                                                              Pressure: 2
                           Temp: 4
                                               Temp: 4
                                                                  Temp: 4 Location: Building 648
                                                                                                                                                                                                                                                [x] Gas [ ] EHS
                       Location: Building 1199
Location: Building 648
                                     Amount:
                                                        Amount:
                                                                            Amount:
```

```
[ ] Identical to previous year CAS: 68476-34-6
               Container Type: D Container Type: A
                                             Container Type: B
                                                             Container Type: B
                                                                            Container Type: A
                                                                                                                                                                                                                  [ ] Pure [x] Mix [ ] Solid [x] Liquid PHYSICAL & HEALTH HAZARDS:
                                                                                                      No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
                                                                                                                                                                                    CHEM NAME: Diesel Fuel
                                                                                                                                                      Max Amt., Max Daily Amt code: 04
Avg. Amt., Avg. Daily Amt code: 04
                                                                                           Container Type: B
                                                                                                                                          Max quantity in largest container:,
                                                                                                                                                                                                                                                                  TRADE SECRET
Pressure:
                                                                Pressure:
                                                   Pressure:
                                                                                  Pressure: 1
                    Pressure:
                                    Pressure:
                                                                                                  Pressure: 1
                      Temp:
                                                   Temp: 4
                                                                  Temp: 4
                                                                                   Temp: 4
       Temp: 4
                                    Temp: 4
                                                                                                                                                                                                                                         []Gas []EHS
                                                                                                      Temp: 4
                                                                                                                                                                                                            [ ] Reactivity [x] Immediate (acute)
                                   Location: Building 1215 Amount:
Location: Building 1201 Amount:
Location: Building 1236 Amount:
Location: Building 1285 (2 drums)
   Location: Building 1211
Location: Building 1213
                                                                                                    Location: Building 1199
                                                                          Amount:
                                                                                           Amount:
               Amount:
                                                              Amount:
                              Amount:
                                                                                                           Amount:
                                                                                                                                                                                                                   [x] Delayed (chronic)
                                               Amount:
```

Container Type: A

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Container Type: A Container Type: A Container Type: A CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia Pressure: 1
Pressure: 1
Pressure: 1 Temp: 4 Temp: 4 Temp: 4 Location: Building 1248
Location: Building 1244A
Location: Building 1250 Amount: Amount: Amount:

Container Type: D Container Type: A [] Identical to previous year CAS: 8006-61-9 Max quantity in largest container:
No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS: [] Pure [x] Mix [] Solid [x] Liquid [] Gas [] EHS PHYSICAL & HEALTH HAZARDS: Container Type: A Pressure: 1 Temp: 4 Location: Building 1244 Amount: CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia [x] Fire [] Sudden Release of Pressure [] Reactivity [x] Immediate (acute) [x] Delayed (chronic) INVENTORY: Max Amt: , Max Daily Amt code: 04 Avg. Amt: , Avg. Daily Amt code: 04 [] TRADE SECRET CHEM NAME: Gasoline Pressure: 1 Temp: 4 Temp: 4 p: 4 Location: Building 1199 Location: Building 1285 Amo Location: Building 1244 Amo Amount: Amount:

```
[ ] Identical to previous year
                                                                                                                                                                          [x] Pure [] Mix [] Solid [] Liquid [x] Gas [] EHS PHYSICAL & HEALTH HAZARDS:
                                                                                                                       INVENTORY:
                                                                                                                                                                                                                                                                                            CAS: 7440-59-7
                                                              Max Amt: Max Daily Amt code: 04 Avg. Amt: Avg. Daily Amt code: 04
                                                                                                                                                                                                                                   [ ] TRADE SECRET CHEM NAME: Helium
No. of days on-site: 365
                                      Max quantity in largest container: ,
                                                                                                                                            [ ] Fire [x] Sudden Release of Pressure
                                                                                                                                                  [ ] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
```

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Container Type: I Container Type: I Container Type: Container Type: L Container Type: L Container Type: L Container Type: L STORAGE CODES & STORAGE LOCATIONS: CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia Container Type: L Pressure: 2 Pressure: 2 Pressure: 2 Pressure: 2 Pressure: Pressure: 2 Pressure: Pressure: 2 Temp: 4 Location: Building 1275
Location: Building 1293A
Location: Building 1287
Location: Building 1205
Location: Building 1250 Location: Building 1221C Location: Building 1299 Location: Building 1200 Amount: Amount: Amount: Amount: Amount: **Amount** Amount: Amount:

[] Identical to previous year Container Type: L Container Type: L Container Type: No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS: PHYSICAL & HEALTH HAZARDS: INVENTORY: CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia Max Amt: , Max Daily Amt code: 04 Avg. Amt: , Avg. Daily Amt code: 04 Container Type: A CHEM NAME: Methane CAS: 74-82-8 Max quantity in largest container:, [x] Fire [x] Sudden Release of Pressure] Pure [x] Mix [] Solid [] Liquid] TRADE SECRET Pressure: 2 Pressure: 2 Pressure: 2 Pressure: 2 Temp: 4 Temp: 4 Temp: 4 [x] Gas [] EHS Temp: 4 Location: Building 1265 (2 tanks) [] Reactivity [x] Immediate (acute) [] Delayed (chronic) Location: Building 1265
Location: Building 1200 Location: Building 1293A Amount: Amount: Amount:

[] Identical to previous year CAS: 76-13-1] TRADE SECRET

CHEM NAME: Trichlorotrifluoroethane (Freon 113)

[] Pure [x] Mix [] Solid [x] Liquid [] Gas []Gas []EHS

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```
Container Type: L
                                          Container Type: L
                                                                                                                                                                                                                                                          PHYSICAL & HEALTH HAZARDS:
                                                                                          STORAGE CODES & STORAGE LOCATIONS:
                                                                                                                                                                                                             [ ] Fire [x] Sudden Release of Pressure [ ] Reactivity [x] Immediate (acute) [ ] Delayed (chronic) INVENTORY:
CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia
                                                                 Container Type: C
                                                                                                                                       Max quantity in largest container:,
                                                                                                                                                                                  Max Amt: , Max Daily Amt code: 04
                                                                                                                  No. of days on-site: 365
                                                                                                                                                               Avg. Amt: , Avg. Daily Amt code: 04
                      Pressure: 1
Pressure: 1
                                                                      Pressure: 2
                                            Temp: 4
                      Temp: 4
                                                                      Temp: 4
                    Location: Building 1265
Location: Building 1208
                                                                    Location: Building 1188
                        Amount: 722 pounds
Amount: 13 pounds
                                                                        Amount: 65469 pounds
```

```
Identical to previous year
                                                                                                                          Container Type: L
                                                                                                                                                                        Container Type: A
                                                                                                                                                                                          Container Type: A
                                                                                                                                                                                                          Container Type:
                                                                                                                                                                                                                          Container Type: L
Container Type: A
           Container Type: A
                                            Container Type: A
                                                            Container Type: A
                                                                          Container Type: A
                                                                                            Container Type: A
                                                                                                          Container Type: A
                                                                                                                                          Container Type: A
                                                                                                                                                                                                                                                                                                                                                                      [x] Pure [ ] Mix [ ] Solid [x] Liquid PHYSICAL & HEALTH HAZARDS:
                                                                                                                                                                                                                                                         STORAGE CODES & STORAGE LOCATIONS:
                                                                                                                                                                                                                                                                                                                                       INVENTORY:
                               Amount:
                                                                                                                                                           Amount:
                                                                                                                                                                                                                                                                                                      Max Amt: , Max Daily Amt code: 07 Avg. Amt: , Avg. Daily Amt code: 07
                                                                                                                                                                                                                                                                                                                                                                                                     CHEM NAME: Nitrogen
                                                                                                                                                                                                                                          Container Type: A
                                                                                                                                                                                                                                                                        No. of days on-site: 365
                                                                                                                                                                                                                                                                                      Max quantity in largest container:,
                                                                                                                                                                                                                                                                                                                                                                                                                                        CAS: 7727-37-9
                                                                                                                                                                                                                                                                                                                                                     [ ] Fire [x] Sudden Release of Pressure
                                                                                                                                                                                                                                                                                                                                                                                                                      TRADE SECRET
                                                                                                                                                                                                                         Pressure: 2
 Pressure: 2
                                                                                                                                                                            Pressure:
                                                                                                                                                                                          Pressure:
                                                                                                                                                                                                          Pressure: 2
                                                                            Pressure:
                                                                                            Pressure:
                                                                                                                             Pressure:
              Pressure:
                                              Pressure:
                                                              Pressure:
                                                                                                            Pressure:
                                                                                                                                             Pressure:
                                                                                                                                                                                                                                          Pressure: 2
 Temn: 7
                                                                                                                          Temp:
                                                                                                                                                                                                          Temp: 4
                                                                                                                                                                                                                          Temp: 4
                                                                          Temp:
                                                                                            Temp:
              Temp: 7
                                                                                                           Temp:
                                                                                                                                           Temp:
                                                                                                                                                                          Temp: 4
                                              lemp:
                                                              lemp:
                                                                                                                                                                                            emp:
                                                                                                                                                                                                                                             Temp: 7
                                                                                                                                                                                                                                                                                                                                                                                      [x] Gas [ ] EHS
                                                                                                                                                                                                                                                                                                                                                         [x] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
  Location: Ruidlion 1277
                                                                                                                                                                                      Location: Building 1221C
Location: Building 1133B
                                                                                                                                                                                                                        Location: Building 1188
                                                                                                                                                                            Location: Building 1148
              Location: Building 1265
                                                                                                                          Location: Building 1233 (on tube trailer)
                                              Location: Building
                                                                              Location: Building
                                                                                             Location: Building
                                                                                                          Location: Building 1236
                                                                                                                                          Location: Building 1293A
                                                              Location: Buidling
                                                                                                                                                                                                                                          Location: Building 648
                                                                              1242
                                                                                              1237B
                                                 1258
                                                                1247E
                                                                                                                                                                                                                             Amount:
                                                                                                               Amount:
                                                                               Amount:
                 Amount:
                                                                                                                                                                                             Amount:
                                                                                                                                               Amount:
                                                               Amount
                                                                                                                                                                                                              Amount:
                                                                                               Amount:
                                                                                                                                                                                                                                              Amount:
                                                                                                                                Amount:
```

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```
Container Type: A
                                                                                                       Container Type: L
                                                                                                                                                                  Container Type: L
Container Type: R
                                                                                                                                                                                                 Container Type: A
                                                                                                                                                                                                              Container Type: A
                                                                                                                                                                                                                                                                             Facility Name:
                                                                        Container Type: L
                                                                                                                     Container Type: L
                                                                                                                                     Container Type: L
                                                                                                                                                  Container Type: L
               Container Type: L
                           Container Type: L
                                           Container Type: I
                                                          Container Type: L
CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia
                                                                                                                                                                                                                                Amount:
                                                                                         Amount:
                                                                                                                                                                                                                                                                             NASA Langley Research Center
              Pressure: 2
                            Pressure: 2
                                             Pressure:
                                                             Pressure:
                                                                           Pressure:
                                                                                                        Pressure:
                                                                                                                        Pressure:
                                                                                                                                      Pressure:
                                                                                                                                                      Pressure:
                                                                                                                                                                                     Pressure:
                                                                                                                                                                                                                  Pressure:
                                                                                                                                                                                                                                                Pressure: 2
                                                                                                                                                                   Pressure:
                                                                                                                                                                                                   Pressure:
                                                                                                                                   Temp: 4
               Temp: 4
                             Temp: 4
                                            Temp: 4
                                                                                                       Temp: 4
                                                                                                                                                                                                                                              Temp: 7
                                                           Temp: 4
                                                                         Temp: 4
                                                                                                                                                                                   Temp: 4
                                                                                                                     emp: 4
                                                                                                                                                      lemp: 4
                                                                                                                                                                    Temp: 4
                                                                                                                                                                                                                lemp: 4
                                                                                                                                                                                                   emp: 4
                                                                                                                                                                                                                                             Location: Buidlign 1277
                                                         Location: Building 1250
Location: Building 1265
                                                                                                                                                   Location: Building 1205
                                                                                                                                                                                                               Location: Building 1299
               Location: Building
                           Location: Building 1160
                                                                                                       Location: Building 1212C Location: Building 1221B Location: Building 1247D
                                        Location: Building 1293A
                                                                                                                                                                                  Location: Building 1148
                                                                                                                                                                                                  Location: Building 648
                                                                                                                                                                 Location: Building 1250
                                                                                                                                                                                                   Amount:
                  Amount:
                                 Amount:
                                                             Amount:
                                                                             Amount:
                                                                                                                                                      Amount:
                                                                                                                                                                                     Amount:
                                                                                                                                                                                                                   Amount:
                                                                                                                                                                      Amount:
                                               Amount
                                                                                                                          Amount
                                                                                                                                        Amount:
```

```
[ ] Identical to previous year
Container Type: L
                                  Container Type: L
                                                     Container Type: L
                                                                       Container Type: L
                                                                                                                                                                                                                                            [x] Pure [ ] Mix [ ] Solid [x] Liquid [x] Gas [ ] EHS PHYSICAL & HEALTH HAZARDS:
                                                                                                            No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
                                                                                                                                                                                                          INVENTORY:
                                                                                                                                                                  Max Amt: Max Daily Amt code: 05 Avg. Amt: Avg. Daily Amt code: 05
                                                                                         Container Type: A
                                                                                                                                                                                                                                                                                    CHEM NAME: Oxygen
                                                                                                                                                   Max quantity in largest container: ,
                                                                                                                                                                                                                                                                                                                               CAS: 7782-44-7
                                                                                                                                                                                                                          [ ] Fire [x] Sudden Release of Pressure [ ] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
                                                                                                                                                                                                                                                                                                          TRADE SECRET
 Pressure: 2
                                                     Pressure:
                 Pressure:
                                                                        Pressure: 2
                                     Pressure:
                                                                                              Pressure: 2
    Temn' 4
                                                                          Temp: 4
                 Temp: 4
                                     Temp: 4
                                                       Temp: 4
                                                                                                Temp: 4
     Location: Ruilding 1148
                 Location: Building 1293A
                               Location: Building 1212C
Location: Building 1223A
                                                                        Location: Building 1221C
                                                                                            Location: Building 1265
      Amount:
                       Amount:
                                      Amount:
                                                         Amount:
                                                                               Amount:
                                                                                                   Amount:
```

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Pressure: 2 Temp: 4 Location: Building 1148 Amount: Pressure: 2 Temp: 4 Location: Building 648 Amount: Pressure: 2 Temp: 4 Location: Building 1232A Amount: Pressure: 2 Temp: 4 Location: Building 1247D Amount: Pressure: 2 Temp: 4 Location: Building 1247D	Amount:	Container Type: L	Container Type: L	Container Type: L	Container Type: L	Container Type: L	
Location: Building 1148 A Location: Building 648 Ar Location: Building 1232A Location: Building 1247D Location: Building 1275		Pressure: 2	Pressure: 2	Pressure: 2	Pressure: 2	Pressure: 2	
3.0.5 ₹ \$		Temp: 4	Temp: 4	Temp: 4	Temp: 4	Temp: 4	
Amount: Amount: Amount: Amount:		Location: Buildign 1275	Location: Building 1247D	Location: Building 1232A	Location: Building 648	Location: Building 1148	
			Amount:	Amount:	Amount:	Amount:	

CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia

Container Type: A
Container Type: L
Container Type: L
Container Type: L Container Type: A Container Type: A Identical to previous year Container Type: L No. of days on-site: 365 STORAGE CODES & STORAGE LOCATIONS: [x] Pure [] Mix [] Solid [x] Liquid [x] Gas [] EHS PHYSICAL & HEALTH HAZARDS: [x] Fire [x] Sudden Release of Pressure [] Reactivity [x] Immediate (acute) [] Delayed (chronic) INVENTORY: CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia Max Amt: , Max Daily Amt code: 04 Avg. Amt: , Avg. Daily Amt code: 04 Container Type: A [] TRADE SECRET CHEM NAME: Propane CAS: 74-98-6 Max quantity in largest container:, Pressure: 2
Pressure: 2
Pressure: 2
Pressure: 2
Pressure: 2
Pressure: 2 Pressure: 2 Pressure: 2 Pressure: 2 Temp: 4 Location: Building 1148 Location: Building 1293A Location: Building 1268D Location: Building 1215 Location: Building 1221A Location: Building 1221B Location: Building 1231 Location: Building 1133B Amount: Amount: Amount: 1270 pounds Amount: 63480 pounds Amount: Amount: 725 gallons Amount: Amount: 6348 pounds

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[] Pure [x] Mix [] Solid [x] Liquid PHYSICAL & HEALTH HAZARDS: CHEM NAME: Ethylene Glycol [] Fire [] Sudden Release of Pressure [] Reactivity [x] Immediate (acute) [x] Delayed (chronic) []Gas []EHS

INVENTORY: Max Amt: Max Daily Amt code: 04 Avg. Amt: Avg. Daily Amt code: 04

No. of days on-site: 365 Max quantity in largest container:,

STORAGE CODES & STORAGE LOCATIONS:

Container Type: N Container Type: C Container Type: C Container Type: N CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia Container Type: N Pressure: 1 Pressure: 1 Pressure: 1 Pressure: Pressure: 1 Temp: 4 Temp: 4 Temp: 4 Temp: 4 Temp: 4 Location: Building 1257 (South) Location: Building 1199 Amount: 173 pounds Location: Building 1257 (North) Amount: 1245 Location: Building 1265 Location: Building 1247B Amount: 288 pounds Amount: 12455 pounds Amount: 12455 pounds Amount: 249 pounds

[] Identical to previous year CHEM NAME: Propylene Glycol
[] Pure [x] Mix [] Solid [x] Liquid
PHYSICAL & HEALTH HAZARDS: [] Fire [] Sudden Release of Pressure [] Reactivity [x] Immediate (acute) [x] Delayed (chronic) INVENTORY: CAS: 57-55-6] TRADE SECRET []Gas []EHS

Max Amt: , Max Daily Amt code: 04 Avg. Amt: , Avg. Daily Amt code: 04

Max quantity in largest container:,

No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:

Container Type: N Container Type: A Pressure: 1 Pressure: 1 Temp: 4 Temp: 4 Location: Building 582A Amount: Amount: 83106 pounds

Container Type: E Container Type: M Pressure: ' Temp: 4 Location: Building 1260 Location: Building 1214 Amount:

CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia

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```
[ ] Identical to previous year
                                                                                                                      Container Type: L
                                                                                                                                           Container Type: L
                                       Container Type: L
                                                           Container Type: L
                                                                             Container Type: L
                                                                                                  Container Type: M
                   Container Type: L
                                                                                                                                                                                                                                                                                                                                 [ ] Pure [x] Mix [ ] Solid [ ] Liquid [x] Gas [ ] EHS PHYSICAL & HEALTH HAZARDS:
                                                                                                                                                                                       STORAGE CODES & STORAGE LOCATIONS:
Container Type: L Pressure: 2 Temp: 4 Location: Building 1265 Amount: CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia
                                                                                                                                                                                                                                                                                             INVENTORY:
                                                                                                                                                                                                                                                 Max Amt: , Max Daily Amt code: 04 Avg. Amt: , Avg. Daily Amt code: 04
                                                                                                                                                                                                                                                                                                               [x] Fire [x] Sudden Release of Pressure [ ] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
                                                                                                                                                                                                                                                                                                                                                                               CHEM NAME: Acetylene
                                                                                                                                                                                                                                                                                                                                                                                                                         CAS: 74-86-2
                                                                                                                                                                Container Type: L
                                                                                                                                                                                                        No. of days on-site: 365
                                                                                                                                                                                                                              Max quantity in largest container:,
                                                                                                                                                                                                                                                                                                                                                                                                  ] TRADE SECRET
                                                                                                                            Pressure: 2
                                                                                                                                                Pressure: 2
                                       Pressure: 2
                                                              Pressure: 2
                                                                                 Pressure: 2
                                                                                                        Pressure:
                                                                                                                                                                      Pressure: 2
                                                            Temp: 4
                                        Temp: 4
                                                                                Temp: 4
                                                                                                                                                Temp: 4
                                                                                                                             Temp: 4
                                                                                                       Temp: 4
                                                                                                                                                                         Temp: 4
                                                                                                                       Location: Building 1200
Location: Building 1284B
                   Location: Building 1212C
Location: Building 1265
                                                         Location: Building 1247D
                                                                                Location: Building 1297C
                                                                                                    Location: Building 1293A
                                                                                                                                                                     Location: Building 1223A
                                                                                                                                                      Amount:
                                               Amount:
                                                                 Amount:
                                                                                                                                Amount:
                                                                                    Amount:
                                                                                                          Amount:
                                                                                                                                                                           Amount:
```

```
[ ] Identical to previous year
                              Container Type:
                                                 Container Type: L
              Container Type:
                                                                                       No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
                                                                                                                                                                                                                            PHYSICAL & HEALTH HAZARDS:
                                                                                                                                                                                   [ ] Fire [x] Sudden Release of Pressure INVENTORY:
                                                                    Container Type: R
                                                                                                                                               Max Amt: , Max Daily Amt code: 04 Avg. Amt: , Avg. Daily Amt code: 04
                                                                                                                                                                                                                                                              CHEM NAME: Argon
                                                                                                                                                                                                                                                                                                          CAS: 7440-37-1
                                                                                                                              Max quantity in largest container:,
                                                                                                                                                                                                                                          ]Pure [x] Mix [] Solid [] Liquid [x] Gas [] EHS
                                                                                                                                                                                                                                                                                    TRADE SECRET
                                 Pressure: 2
Pressure: 2
               Pressure:
                                                                       Pressure: 2
              Temp: 4
                                 Temp: 4
                                                   Temp: 4
                                                                           Temp: 4
                                                                                                                                                                                                            [ ] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
Location: Building 1148
Location: Building 1205
Location: Building 1265
                                                 Location: Building 1223A
                                                                      Location: Building 1232A
                   Amount:
                                       Amount:
                                                          Amount:
                                                                           Amount:
```

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Specific Information by Chemical

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Printed: February 21, 2002

Facility Name: NASA Langley Research Center

Container Type: L Pressure: 2 Temp: 4 Location: Building 1276 Amount: Container Type: L Pressure: 2 Temp: 4 Location: Building 1275 Amount: CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia Container Type: L Pressure: 2 Temp: 4 Location: Building 1265

[] Identical to previous year CAS: 7439-92-1 [] TRADE SECRET Container Type: M Container Type: R [] Fire [] Sudden Release of Pressure [] Reactivity [x] Immediate (acute) [x] Delayed (chronic) INVENTORY: [] Pure [x] Mix [x] Solid [] Liquid [] Gas [] EHS PHYSICAL & HEALTH HAZARDS: Max quantity in largest container: ,
No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS: CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia Max Amt: , Max Daily Amt code: 04 Avg. Amt: , Avg. Daily Amt code: 04 CHEM NAME: Lead Container Type: R Pressure: 1
Pressure: 1 Pressure: 1 Temp: 4 Temp: 4 5: 4 Location: Building 1275 Amount: Location: Building 1293A Amount: Location: Building 1230 Amount:

[] Identical to previous year [] TRADE SECRET
CHEM NAME: Hydrogen
[] Pure [x] Mix [] Solid [] Liquid [x] Gas [] EHS
PHYSICAL & HEALTH HAZARDS:
[] Fire [x] Sudden Release of Pressure [] Reactivity [x] Immediate (acute) [] Delayed (chronic) INVENTORY: Max Amt: , Max Daily Amt code: 04 Avg. Amt: , Avg. Daily Amt code: 04

Max quantity in largest container:,

No. of days on-site: 365

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Emergency and Hazardous Chemical Inventory Specific Information by Chemical

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2001

Printed: February 21, 2002

Facility Name: NASA Langley Research Center

Container Type: L Pressure: 2 Temp: 4 Location: Building 1293A Amount: Container Type: L Pressure: 2 Temp: 4 Location: Building 1275 Amount: CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia No. of days on-site: 365 STORAGE CODES & STORAGE LOCATIONS: Container Type: L Pressuriner Type: L Pressure: 2 Pressure: 2 Temp: 4 Location: Building 1293A
Temp: 4 Location: Building 1275
TIFI DS: No additional 1275 Temp: 4 Location: Building 1221C Amount: Amount:

[] Identical to previous year Container Type: N Container Type: R [] Pure [x] Mix [x] Solid [] Liquid [] Gas [] EHS PHYSICAL & HEALTH HAZARDS: Container Type: R Pressure: 1 Temp: 4 Location: Building 1275 Amount: Container Type: N Pressure: 2 Temp: 4 Location: Building 1293A Amount: Chemical information is required by Virginia CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia No. of days on-site: 365 STORAGE CODES & STORAGE LOCATIONS: [] Fire [] Sudden Release of Pressure [] Reactivity [x] Immediate (acute) [] Delayed (chronic) INVENTORY: [] TRADE SECRET CHEM NAME: Tin Max Amt: , Max Daily Amt code: 04 Avg. Amt: , Avg. Daily Amt code: 04 CAS: 7440-31-5 Max quantity in largest container:, Temp: 4 Location: Building 1275 Amount:

```
[ ] Identical to previous year
                                                                                                                                                     [ ] Pure [x] Mix [ ] Solid [x] Liquid PHYSICAL & HEALTH HAZARDS:
                                                                                                         INVENTORY:
                                                      Max Amt: , Max Daily Amt code: 04 Avg. Amt: , Avg. Daily Amt code: 04
                                                                                                                               [x] Fire [ ] Sudden Release of Pressure
                                                                                                                                                                                                          CHEM NAME: Used Oil
Max quantity in largest container: ,
No. of days on-site: 365
                                                                                                                                                                                                                                   TRADE SECRET
                                                                                                                                                                                      []Gas []EHS
                                                                                                                                 [ ] Reactivity [x] Immediate (acute) [ ] Delayed (chronic)
```

Emergency and Hazardous Chemical Inventory Specific Information by Chemical

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Printed: February 21, 2002

Facility Name: NASA Langley Research Center

```
Container Type: D
Container Type: D
Container Type: D
Container Type: D
               Container Type: D
Container Type: D
Container Type: D
                                                                                                                                                             Container Type: D
                                                                                                                                                                            Container Type: D
                                                                                                                                                                                            Container Type: D
                                                             Container Type: D
                                                                                                                                            Container Type: D
                                                                                                                                                                                                                            STORAGE CODES & STORAGE LOCATIONS:
CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia
                                                                                                                                                                                                             Container Type: A
                                                                                                                                                                                               Pressure:
                                                                                                                                                                                Pressure:
                 Pressure:
                               Pressure:
                                               Pressure:
                                                                                                                                 Pressure:
                                                                                                                                                  Pressure:
                                                                                                                                                                 Pressure:
                                                                 Pressure:
                                                                                 Pressure:
                                                                                                  Pressure:
                                                                                                                 Pressure:
                                                                                                                                                                                                                  Pressure: 1
                                                                 Temp: 4
                                                                                                Temp: 4
                                                                                                                                Temp: 4
                                                                                                                                               Temp: 4
                                                                                                                                                                                Temp: 4
                                                                                                                                                                                                Temp: 4
                                                                                                                                                                 Temp: 4
                                   Temp:
                                                                                  Temp: 4
                                                                                                                  Temp: 4
                                                   lemp: 4
                      emp:
                                                                                                                                                                                                                    Temp: 4
                                                                                Location: Building 1220 Amoun
Location: Building 1225 Amoun
Location: Building 1236 Amoun
Location: Building 1251/1251A
                   Location: Building 1247E
Location: Building 1265
Location: Building 1267
Location: Building 1283
                                                                                                                                              Location: 90-day Storage Facility
Location: Building 1188 Amour
Location: Building 1198 Amour
Location: Building 1199 Amour
                                                                                                                                                                                                                   Location: 90-day Storage Facility
                                       Amount:
Amount:
                                                                                                                                                                    Amount:
                                                                                                                                                                                     Amount:
                                                                                                    Amount:
                                                                                                                                     Amount:
                                                                                                                    Amount:
                                                                                                                                                    Amount:
                        Amount:
                                                                      Amount:
                                                                                        Amount:
                                                                                                                                                                                                       Amount:
                                                                                                                                                                                                                       Amount:
```

[] Identical to previous year [] Pure [x] Mix [] Solid [x] Liquid PHYSICAL & HEALTH HAZARDS: Container Type: E Pressure: 1 Temp: 4 Location: Building 1156 Amount: CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia [] Fire [] Sudden Release of Pressure [] Reactivity [x] Immediate (acute) [] Delayed (chronic) INVENTORY: STORAGE CODES & STORAGE LOCATIONS: Max Amt: , Max Daily Amt code: 04 Avg. Amt: , Avg. Daily Amt code: 04 CHEM NAME: Inhibitor PM-605 No. of days on-site: 365 [X] TRADE SECRET Max quantity in largest container:, []Gas []EHS

Specific Information by Chemical

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Facility Name: NASA Langley Research Center

No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS:
Container Type: R Pressure: 1 Temp: 4
Container Type: D Pressure: 1 Temp: 4 Container Type: R Pressure: 1 Temp: 4 Location: Recycling Facility Amount: Container Type: D Pressure: 1 Temp: 4 Location: Building 1225 Amount: CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia [] Fire [] Sudden Release of Pressure [] Reactivity [x] Immediate (acute) [] Delayed (chronic) INVENTORY: PHYSICAL & HEALTH HAZARDS: Max Amt: , Max Daily Amt code: 04 Avg. Amt: , Avg. Daily Amt code: 04 [] TRADE SECRET
CHEM NAME: Oily Water
[] Pure [x] Mix [] Solid Max quantity in largest container:, [x] Liquid []Gas []EHS

[] Identical to previous year CHEM NAME: Mixed metal alloys
[] Pure [x] Mix [x] Solid [] Liquid [] Gas [] EHS
PHYSICAL & HEALTH HAZARDS: No. of days on-site: 365
STORAGE CODES & STORAGE LOCATIONS: Container Type: R Pressure: 1 Temp: 4 Location: ubiquitous on Center Amount: CHEMICALS IN INVENTORY STATE FIELDS: No additional chemical information is required by Virginia [] Fire [] Sudden Release of Pressure [] Reactivity [x] Immediate (acute) [] Delayed (chronic) INVENTORY: Max quantity in largest container: , Max Amt: , Max Daily Amt code: 05 Avg. Amt: , Avg. Daily Amt code: 05 TRADE SECRET

FACILITY STATE FIELDS:

No additional information is required by Virginia

Tier Two Emergency and Hazardous Chemical Inventory Specific Information by Chemical	Reporting Period: January 1 to December 31, 2001 Page 15 of 16 Printed: February 21, 2002
Facility Name: NASA Langley Research Center	
FEES: None.	
[x] I have attached a site plan[] I have attached a list of site coordinate abbreviations[] I have attached a description of dikes and other safeguard measures	
Name and official title of owner/operator OR owner/operators's authorized representative: Robert D. Brown, Environmental Mngmt. Officer, OSEM Date Signed:	ાતું representative: Robert D. Brown, Environmental Mngmt.

CERTIFICATION:

Name and official title of owner/operator OR owner/operators's authorized representative

RDUmun

Eno. Many Office

Signature

certify under penalty of law that I have personally examined and am familiar with the information submitted in pages 1 through and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Date Signed



